SUMMARY OF THE INVENTION-;

Page 2, line 5, delete "One" and substitute -An--;

Page 2, at line 24, delete "Presentation of the Figures" insert the following heading at the left hand margin:

-BRIEF DESCRIPTION OF THE DRAWINGS-

Page 7, line 9, before "filter", insert -complex--;

Page 21, after line 14, insert the following new paragraph:

---While this invention has been described in conjunction with specific embodiments thereof, it is evident that many alternatives, modifications and variations will be apparent to those skilled in the art. Accordingly, the preferred embodiments of the invention as set forth herein, are intended to be illustrative, not limiting. Various changes may be made without departing from the true spirit and full scope of the invention as set forth herein and defined in the claims.

IN THE CLAIMS:

ADD

Please amend claims 1 - 12 as follows:

- 1 --13. A method for processing a complex request addressed to at least one
- 2 SNMP agent (5) of a resource machine (2b) of a computer system (1) from a
- 3 complex protocol manager (4) of an application machine (2a), wherein the complex
- 4 request addressed to the agent (5) from the manager (4) comprises SNMP attributes
- 5 managed by the agent (5) and capable of being represented by a filter (F1, F2)
- 6 constituted by any number of conditions on any number of attributes, linked to one
- another by any number of Boolean operators (AND, OR, NOT, EX.OR, etc.) and the
- 8 application (2a) and resource (2b) machines communicate through a network (3),

- each agent (5) managing attribute tables belonging to the resource machine (2b), the
 instances of the tables being referenced by identifiers comprising indexes,
 comprising:
- transforming a complex filter (F1) derived from the complex request addressed to
 agent (5) from the manager (4) of the application machine (2a) into a simplified
 filter (F2) comprising only conditions on indexes, and adapted to let through all
 the SNMP requests whose responses could verify the complex filter (F1), but
 filter out all the SNMP requests whose responses cannot in any way verify the
 complex filter (F1);
- limiting the SNMP requests to those that comply with the simplified filter (F2);
- transmitting said limited SNMP requests to the SNMP agent (5) of the resource
 machine (2b) through the network (3); and
 - applying the complex filter (F1) to the responses obtained to the SNMP requests;
 to thereby process said complex request and to optimize the number of the SNMP
 requests transmitted through the network (3).
 - 14. A method according to claim 13, wherein an identifier just below an identifier of the potential instance determined is a test identifier further comprising:
 - 1) determining the first potential instance that verifies the simplified filter (F2);
 - 2) using an SNMP request to find the instance of the table having as its identifier the one that follows the test identifier and if no instance is found, terminating the processing method, if an instance is found, naming the instance found a solution instance;
 - 3); determining whether the solution instance is part of the response to the complex request processed by verifying the complex filter (F1) and upon



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	•) #3
10		verification of the complex filter (F1), applying the complex filter (F1) to
11		the solution instance;
12	4) determining the first potential instance whose identifier is higher than the
13		identifier of the solution instance and that verifies the simplified filter (F2)
1.4		

and terminating the processing method if no instance is found and if an 14 15 instance is found, naming the identifier that is just below the identifier of the potential instance a test identifier and resuming the step of using the 16 17 SNMP request to find the instance of the table having as its identifier the

one that follows the test identifier...

15. A method according to claim 14 comprising in the step of transforming 1 2 the complex filter (F1) into the simplified filter (F2) having the form:

3 (OR

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(AND 4

condition on index 1: C1(1) 5

6 condition on index 2: C2(1)

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condition on index n: Cn(1) 8

) 9

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12 condition on index 1: C1(i)

13 condition on index 2: C2(i)

14

(AND

condition on index n: Cn_(i) 15



- 18).
- 1 16. A method according to claim 14, wherein in the first step, after
- 2 simplification, the simplified filter (F2) is reduced to:
- only the TRUE condition, in which case the table is scanned in its entirety;
- 4 only the FALSE condition, in which case no instance can work.
- 1 17 A method according to claim 15, wherein in the first step, after 2 simplification, the simplified filter (F2) is reduced to:
- only the TRUE condition, in which case the table is scanned in its entirety;
- 4 only the FALSE condition, in which case no instance can work.
 - 18. A method according to claim 14, characterized in that, in order to obtain the simplified filter F2, immediately verifying whether the complex filter responds to rules defining filters that are not verified by any instance.
 - 19. A method according to claim 15, characterized in that, in order to obtain the simplified filter F2, immediately verifying whether the complex filter responds to rules defining filters that are not verified by any instance.
 - 20. A method according to claim 16, characterized in that, in order to obtain the simplified filter F2, immediately verifying whether the complex filter responds to rules defining filters that are not verified by any instance.

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- 1 21. A method according to claim 17, characterized in that, in order to
- 2 obtain the simplified filter F2, immediately verifying whether the complex filter
- 3 responds to rules defining filters that are not verified by any instance.
- 1 22. A method according to claim 13 characterized in that, in order to obtain
- 2 a simplified filter F2,
- transforming the complex filter (F1) into a combination of conditions on the
- 4 attributes joined by the logical operators AND, OR and NOT;
- pushing NOT operators to the leaves and deleting double NOTs (NOT
- 6 NOT);
- 7 deleting the conditions X affecting the attributes that are not indexes;
- simplifying the resulting operations;
- 9 factoring the nested ANDs and ORs;
- gathering the conditions related to the same index; and
- gathering all the ORs at the route of the filter and simplifying the resulting
- 12 operations again.
- 1 23. A method according to claim 14 characterized in that, in order to obtain
- 2 a simplified filter F2,
- transforming the complex filter (F1) into a combination of conditions on the
- 4 attributes joined by the logical operators AND, OR and NOT;
- pushing NOT operators to the leaves and deleting double NOTs (NOT
- 6 **NOT**);
- 7 deleting the conditions X affecting the attributes that are not indexes;



- simplifying the resulting operations;
- .9 factoring the nested ANDs and ORs;
- 10 gathering the conditions related to the same index; and
- gathering all the ORs at the route of the filter and simplifying the resulting
- 12 operations again.
 - 1 24. A method according to claim 15 characterized in that, in order to obtain
- 2 a simplified filter F2,
- transforming the complex filter (F1) into a combination of conditions on the
- 4 attributes joined by the logical operators AND, OR and NOT;
- pushing NOT operators to the leaves and deleting double NOTs (NOT
- 6 NOT);
- 7 deleting the conditions X affecting the attributes that are not indexes;
- 8 simplifying the resulting operations;
- 9 factoring the nested ANDs and ORs;
- 10 gathering the conditions related to the same index; and
- gathering all the ORs at the route of the filter and simplifying the resulting
- 12 operations again.
- 1 25. A method according to claim 16 characterized in that, in order to obtain
- 2 a simplified filter F2,
- transforming the complex filter (F1) into a combination of conditions on the
- 4 attributes joined by the logical operators AND, OR and NOT;
- pushing NOT operators to the leaves and deleting double NOTs (NOT
- 6 NOT);



- 7 deleting the conditions X affecting the attributes that are not indexes;
- 8 simplifying the resulting operations;
- factoring the nested ANDs and ORs;
- 10 gathering the conditions related to the same index; and
- gathering all the ORs at the route of the filter and simplifying the resulting
- 12 operations again.
- 1 26. A method according to claim 17 characterized in that, in order to obtain
- 2 a simplified filter F2,
- transforming the complex filter (F1) into a combination of conditions on the
- 4 attributes joined by the logical operators AND, OR and NOT;
- pushing NOT operators to the leaves and deleting double NOTs (NOT
- 6 NOT);
- 7 deleting the conditions X affecting the attributes that are not indexes;
- simplifying the resulting operations;
- factoring the nested ANDs and ORs;
- 10 gathering the conditions related to the same index; and
- 11 gathering all the ORs at the route of the filter and simplifying the resulting
- 12 operations again.
- 1 27. A method according to claim 18 characterized in that, in order to obtain
- 2 a simplified filter F2,
- transforming the complex filter (F1) into a combination of conditions on the
- 4 attributes joined by the logical operators AND, OR and NOT;
- pushing NOT operators to the leaves and deleting double NOTs (NOT



- 6 NOT);
- 7 deleting the conditions X affecting the attributes that are not indexes;
- simplifying the resulting operations;
- factoring the nested ANDs and ORs;
- 10 gathering the conditions related to the same index; and
- gathering all the ORs at the route of the filter and simplifying the resulting operations again.
- 28. A method according to claim 22, comprising replacing the conditions X and NOT X with the constant TRUE in order to delete the conditions X.
 - 29. A method according to claim 23, comprising replacing the conditions X and NOT X with the constant TRUE in order to delete the conditions X.
- 30. A method according to claim 24, comprising replacing the conditions X and NOT X with the constant TRUE in order to delete the conditions X.
- 1 31. A method according to claim 25, comprising replacing the conditions X and NOT X with the constant TRUE in order to delete the conditions X.
- 1 32. A method according to claim 18, having AND and OR operations and 2 characterized in that in order to simplify the operations, it consists of:
- replacing AND and OR operations having only one operand with said one
 operand;

- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- and OR operations containing only FALSE operands with a constant FALSE;
- 7 removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;
- 9 replacing OR operations containing at least one TRUE operation with a constant
- TRUE and AND operations containing at least one FALSE operand with a
- 11 constant FALSE;
- 12 replacing conditions that are always TRUE with a constant TRUE and conditions
- that are always FALSE with a constant FALSE;
- 14 all of said latter simplification operations being repeated as many times as it is
- 15 possible to do so.



- 1 33. A method according to claim 23, having AND and OR operations and
- 2 characterized in that in order to simplify the operations, it consists of:
- 3 replacing AND and OR operations having only one operand with said one
- 4 operand;
- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- and OR operations containing only FALSE operands with a constant FALSE;
- 7 removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;
- 9 replacing OR operations containing at least one TRUE operation with a constant
- TRUE and AND operations containing at least one FALSE operand with a
- 11 constant FALSE;
- replacing conditions that are always TRUE with a constant TRUE and conditions that
- are always FALSE with a constant FALSE;

- all of said latter simplification operations being repeated as many times as it is possible to do so.
- 1 34. A method according to claim 24, having AND and OR operations and 2 characterized in that in order to simplify the operations, it consists of:
- replacing AND and OR operations having only one operand with said one
 operand;
- replacing AND operations containing only TRUE operands with a constant TRUE and OR operations containing only FALSE operands with a constant FALSE;
- removing TRUE conditions from the other AND operations and FALSE conditions from the other OR operations;
- replacing OR operations containing at least one TRUE operation with a constant
 TRUE and AND operations containing at least one FALSE operand with a
 constant FALSE;
- replacing conditions that are always TRUE with a constant TRUE and conditions
 that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is possible to do so.
- 1 35. A method according to claim 25, having AND and OR operations and 2 characterized in that in order to simplify the operations, it consists of:
- replacing AND and OR operations having only one operand with said one
 operand;
- replacing AND operations containing only TRUE operands with a constant TRUE and OR operations containing only FALSE operands with a constant FALSE;



- removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;
- 9 replacing OR operations containing at least one TRUE operation with a constant
- TRUE and AND operations containing at least one FALSE operand with a
- constant FALSE;
- 12 replacing conditions that are always TRUE with a constant TRUE and conditions
- that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is
- possible to do so.
 - 1 36. A method according to claim 26, having AND and OR operations and
- 2 characterized in that in order to simplify the operations, it consists of:
- 3 replacing AND and OR operations having only one operand with said one
- 4 operand;
- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- 6 and OR operations containing only FALSE operands with a constant FALSE;
- 7 removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;
- 9 replacing OR operations containing at least one TRUE operation with a constant
- TRUE and AND operations containing at least one FALSE operand with a
- 11 constant FALSE;
- 12 replacing conditions that are always TRUE with a constant TRUE and conditions
- that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is
- possible to do so.



- 1 37. A method according to claim 27, having AND and OR operations and
- 2 characterized in that in order to simplify the operations, it consists of:
- 3 replacing AND and OR operations having only one operand with said one
- 4 operand;
- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- and OR operations containing only FALSE operands with a constant FALSE;
- 7 removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;
- 9 replacing OR operations containing at least one TRUE operation with a constant
- TRUE and AND operations containing at least one FALSE operand with a
- 11 constant FALSE;
- 12 replacing conditions that are always TRUE with a constant TRUE and conditions
- that are always FALSE with a constant FALSE;
- 14 all of said latter simplification operations being repeated as many times as it is
- possible to do so.
- 1 38. A method according to claim 28, having AND and OR operations and
- 2 characterized in that in order to simplify the operations, it consists of:
- 3 replacing AND and OR operations having only one operand with said one
- 4 operand;
- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- and OR operations containing only FALSE operands with a constant FALSE;
- 7 removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;



- replacing OR operations containing at least one TRUE operation with a constant
 TRUE and AND operations containing at least one FALSE operand with a
 constant FALSE;
- replacing conditions that are always TRUE with a constant TRUE and conditions
 that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is possible to do so.
- 39. A method according to claim 29, having AND and OR operations and characterized in that in order to simplify the operations, it consists of:
- replacing AND and OR operations having only one operand with said one
 operand;
- replacing AND operations containing only TRUE operands with a constant TRUE and OR operations containing only FALSE operands with a constant FALSE;
- removing TRUE conditions from the other AND operations and FALSE conditions from the other OR operations;
- replacing OR operations containing at least one TRUE operation with a constant
 TRUE and AND operations containing at least one FALSE operand with a
 constant FALSE;
- replacing conditions that are always TRUE with a constant TRUE and conditions
 that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is possible to do so.



- 1 40. A method according to claim 30, having AND and OR operations and
- 2 characterized in that in order to simplify the operations, it consists of:
- replacing AND and OR operations having only one operand with said one
- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- and OR operations containing only FALSE operands with a constant FALSE;
- removing TRUE conditions from the other AND operations and FALSE conditions
- from the other OR operations;
- 9 replacing OR operations containing at least one TRUE operation with a constant
- TRUE and AND operations containing at least one FALSE operand with a
- constant FALSE;

operand;

- replacing conditions that are always TRUE with a constant TRUE and conditions
- that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is
- possible to do so.
- 1 41. A method according to claim 31, having AND and OR operations and
- 2 characterized in that in order to simplify the operations, it consists of:
- 3 replacing AND and OR operations having only one operand with said one
- 4 operand;
- 5 replacing AND operations containing only TRUE operands with a constant TRUE
- and OR operations containing only FALSE operands with a constant FALSE;
- 7 removing TRUE conditions from the other AND operations and FALSE conditions
- 8 from the other OR operations;



- replacing OR operations containing at least one TRUE operation with a constant
 TRUE and AND operations containing at least one FALSE operand with a
 constant FALSE;
- replacing conditions that are always TRUE with a constant TRUE and conditions that are always FALSE with a constant FALSE;
- all of said latter simplification operations being repeated as many times as it is possible to do so.
- 42. A method according to claim 14 characterized in that the step of
 determining the first potential instance that verifies the simplified filter comprises
 concatenating the first value that verifies C1_(i) with the first value that verifies C2_(i),
 and so on up to Cn_(i), in order to obtain zero local potential instances I1_0_(i).I2_0_(i)...
 In_0_(i), the first possible value without a condition on a given index being the null
 value, the potential instance corresponding to the smallest of the zero local potential
 instances.
 - 43. A method according to claim 15 characterized in that the step of determining the first potential instance that verifies the simplified filter comprises concatenating the first value that verifies C1_(i) with the first value that verifies C2_(i), and so on up to Cn_(i), in order to obtain zero local potential instances I1_0_(i).I2_0_(i).... In_0_(i), the first possible value without a condition on a given index being the null value, the potential instance corresponding to the smallest of the zero local potential instances.

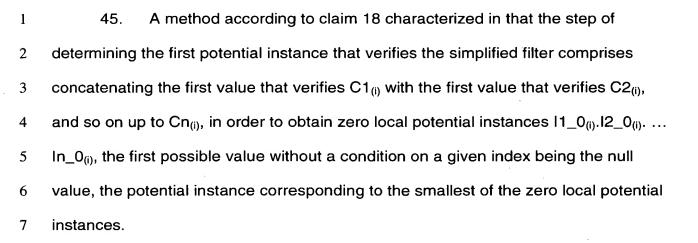
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46. A method according to claim 22 characterized in that the step of determining the first potential instance that verifies the simplified filter comprises concatenating the first value that verifies C1_(i) with the first value that verifies C2_(i), and so on up to Cn_(i), in order to obtain zero local potential instances I1_0_(i).I2_0_(i)... In_0_(i), the first possible value without a condition on a given index being the null value, the potential instance corresponding to the smallest of the zero local potential instances.

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- 47. A method according to claim 28 characterized in that the step of
 determining the first potential instance that verifies the simplified filter comprises
 concatenating the first value that verifies C1_(i) with the first value that verifies C2_(i),
 and so on up to Cn_(i), in order to obtain zero local potential instances I1_0_(i).I2_0_(i)....
 In_0_(i), the first possible value without a condition on a given index being the null
 value, the potential instance corresponding to the smallest of the zero local potential
 instances.
 - 48. A method according to claim 32 characterized in that the step of determining the first potential instance that verifies the simplified filter comprises concatenating the first value that verifies C1_(i) with the first value that verifies C2_(i), and so on up to Cn_(i), in order to obtain zero local potential instances I1_0_(i).I2_0_(i).... In_0_(i), the first possible value without a condition on a given index being the null value, the potential instance corresponding to the smallest of the zero local potential instances.
 - 49. A method according to claim 42, characterized in that the step of determining the first potential instance whose identifier is higher than the identifier of the solution instance comprises performing, for any i and as long as the index p is greater than 0 or as long as no instance searched for has been found, the following operations:
 - If there exists a $Jp_{(i)} > Ip$ that verifies the condition $Cp_{(i)}$, then the local potential instance is formed in the following way:
- for any index k < p, we take the value lk with I1.I2.In being the identifier of the solution instance;



- 50. A method according to claim 43, characterized in that the step of determining the first potential instance whose identifier is higher than the identifier of the solution instance comprises performing, for any i and as long as the index p is greater than 0 or as long as no instance searched for has been found, the following operations:
 - If there exists a $Jp_{(i)} > Ip$ that verifies the condition $Cp_{(i)}$, then the local potential instance is formed in the following way:
 - for any index k < p, we take the value lk with I1.I2.In being the identifier of the solution instance;
 - for the index p, we take the value Jp_(i);
 - for any index k > p, we take the value $lk_0(i)$;
- Otherwise p takes the value p-1 and the method repeats the above
 operations, the potential instance corresponding to the smallest of the local
 potential instances obtained.
 - 51. A method according to claim 44, characterized in that the step of determining the first potential instance whose identifier is higher than the identifier of the solution instance comprises performing, for any i and as long as the index p is

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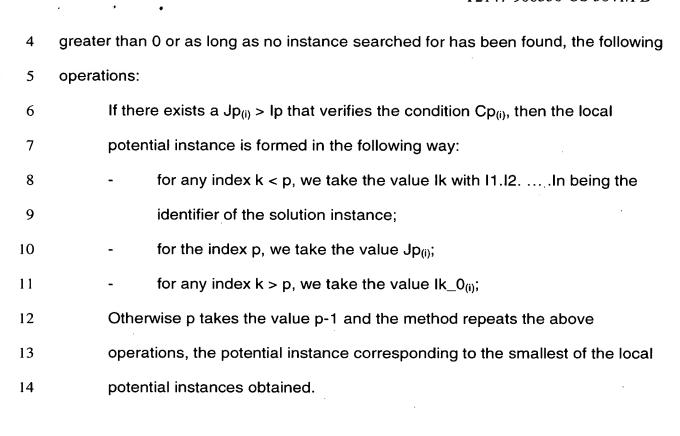
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- 52. A method according to claim 45, characterized in that the step of determining the first potential instance whose identifier is higher than the identifier of the solution instance comprises performing, for any i and as long as the index p is greater than 0 or as long as no instance searched for has been found, the following operations:
- If there exists a $Jp_{(i)} > Ip$ that verifies the condition $Cp_{(i)}$, then the local potential instance is formed in the following way:
- for any index k < p, we take the value lk with I1.I2. In being the identifier of the solution instance;
- for the index p, we take the value Jp_(i);
- 11 for any index k > p, we take the value $lk_0(i)$;

- 53. A method according to claim 14 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
- 54. A method according to claim 15 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
- 55. A method according to claim 16 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.

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- A method according to claim 18 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
- 57. A method according to claim 22 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
- 58. A method according to claim 28 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
- 59. A method according to claim 32 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance

- 4 consist of obtaining the test identifier from the identifier of the potential instance, by
- 5 subtracting one from its last number if the latter is different from 0, or by deleting this
- 6 last number if it is null.
 - 60. A method according to claim 42 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
 - 61. A method according to claim 49 characterized in that the steps of determining the first potential instance that verifies the simplified filter and the first potential instance whose identifier is higher than the identifier of the solution instance consist of obtaining the test identifier from the identifier of the potential instance, by subtracting one from its last number if the latter is different from 0, or by deleting this last number if it is null.
 - 62. A system for processing a complex request comprising at least one SNMP agent (5) of a resource machine (2b) of a computer system (1) to which the complex request is transmitted from a complex protocol manager (4) of an application machine (2a), each agent (5) managing attribute tables belonging to the resource machine (2b), instances of the tables being referenced by identifiers comprising indexes, the system comprising an integrating agent (6) for processing the complex request,



- 1 63. The system for processing as set forth in claim 62 further
- 2 comprising means for determining the first potential instance that verifies the
- 3 simplified filter (F2) wherein the identifier first below the identifier of the
- 4 potential instance determined is a test identifier.

requests transmitted through the network (3).

- 1 64. The system for processing as set forth in claim 63 wherein, using
- 2 an SNMP request, there is provided means to find the instance of the table
- 3 having as its identifier the one that follows the test identifier and if no instance
- 4 is found, terminating the processing method, if an instance is found, naming
- 5 the instance found a solution instance; and means for determining whether

- 6 the solution instance is part of the response to the complex request processed
- 7 by verifying the complex filter (F1) and upon verification of the complex Sfilter
- 8 (F1), applying the complex filter (F1) to the solution instance;

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65.
                    The system for processing as set forth in claim 64 further comprising
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     means for transforming the complex filter (F1) into a simplified filter having the form
     (OR
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        (AND
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             condition on index 1: C1(1)
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             condition on index 2: C2(1)
7
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             condition on index n: Cn(1)
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        )
10
        (AND
11
             condition on index 1: C1<sub>(i)</sub>
12
             condition on index 2: C2(i)
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14
             condition on index n: Cn(i)
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        )
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IN THE ABSTRACT:

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Cancel the Abstract at page 30 in its entirety and substitute the following new Abstract: